



Cyberchron Rugged Systems

A Division of C-Systems Corporation

CPC-3800

Rugged Rackmount Server

The CPC-3800 series *ruggedized* Rackmount Servers are designed for deployment in the harshest military and industrial environments while supporting the latest advances in data storage technology. They are ideally suited for configuration within a high speed Ethernet network as server subsystems. Features include: dual/quad XEON Multi-core processors to 3+GHz; memory to 64GB; high performance RAID subsystem via dedicated high speed processors and data caching; easily expandable to suit changing needs for multiple removable data storage devices with hot-swap/hot-spare capability. Multiple backplane options include: industry standard multi-processor motherboards or 11 thru 20 slot active/passive backplanes in single or multi-segment configurations. Remote diagnostic and full RAID management capability via the Ethernet, as well as transparent support for all Operating Systems including Windows 7, Vista, XP and Linux; multiple Gigabit Ethernet (10/100/1000 autosensing) and both copper and fiber support are standard. And of course, the CPC-3800 series supports all manufacturers' disk drives, CD/DVD devices and tape drives, as well as solid-state Flashdisk devices.



FIELD RUGGED - MISSION READY

CHASSIS

- > Seam Welded Monocoque Aluminum Design
- > Forced air cooled, high flow
- > 19" Rack-mount or Pedestal mount
- > Easy Removable Top Access Cover and front drive/media access door
- > Fully EMI shielded with flexible I/O

UPGRADEABILITY

- > Multiple drives for over 16TB of rugged data storage
- > Hot swap drive bays, optional
- > Industry standard motherboard or passive backplane configuration
- > Mix & Match all types of disk drives or solid-state Flashdisks

POWER SUPPLY

- > Militarized Power Supply
- > Auto-range AC & DC options
- > Wide Voltage & Frequency Compliance
- > Power Cord with secure Twist-&-Lock connector
- > BBU option

DISPLAY

- > Full control via OS through Ethernet connection
- > Standard Video and PS/2 keyboard/mouse connections
- > SNMP, DHCP and static IP support
- > Optional RAID manager

INTERFACING

- > Drives: SATA, SAS, EIDE, SCSI
- > Host: RJ-45 Base-T Ethernet
- > Flexible I/O options
- > Multiple Gigabit Ethernet (10/100/1000 autosensing)
- > Windows 7, Vista, XP, Linux

PERIPHERALS

- > 2.5"/3.5"/5.25" disk drive form factors supported
- > Full support for all hard drives and solid-state Flashdisks
- > Support for Optical drives
- > Mix & Match all drives, media and capacities



ALTITUDE



TEMPERATURE



SOLAR RADIATION



RAIN



HUMIDITY



FUNGUS



SALT FOG



SAND/DUST



VIBRATION



SHOCK



EMI/EMC

2700 Route 9 * Cold Spring, NY 10516 USA * Tel (845)265-3700 * FAX (845)265-3752

E-mail: cybersales@cyberchron.com * www.cyberchron.com



UNIT SPECIFICATIONS

Item	CPC-3800/4	CPC-3800/3	CPC-3800/2
Rack height	4U	3U	2U
Hard Drive capacity	16 drives	8 drives	4 drives
Backplane	Motherboard Or Passive	Motherboard or Passive	Motherboard
Processor	All Intel types	All Intel types	All Intel types
Disk interface	SATA, SAS, EIDE, SCSI	SATA, SAS, EIDE, SCSI	SATA, SAS, EIDE, SCSI
Host interface	Multiple Gigabit Ethernet (10/100/1000)	Multiple Gigabit Ethernet (10/100/1000)	Multiple Gigabit Ethernet (10/100/1000)
Backplane Segments	1 or 2	1 or 2	1
Memory	64GB	64GB	64GB

ENVIRONMENTAL

Temperature operating non-operating	0°C to +50°C -40°C to +85°C
Altitude operating non-operating	-1,000 to 15,000' to 60,000' (Method 500.3)
Fungus	Will not support growth per Method 508.4
Humidity	5 - 95% Non-Condensing
Rain	Operating, per Method 506.3 Procedure I
Salt Fog	MIL-STD-810E Method 509.3 Procedure I, exterior
Sand & Dust	Operating per Method 510.3 Procedure I
Solar Radiation	Operation in direct sunlight, minimum 30 minutes
Shock, operating	20g @ 11mS half sine, per Method 516.4 Procedure I
Shock, non-operating	75g @ 11mS half sine, per Method 516.4 Procedure V; 4' drop (in transit case)
Vibration	Per shipboard, common carrier, ground mobile, aircraft, tactical wheeled vehicle (Method 514.4); MIL-STD-167/1 type 1
MTBF	>30,000 hrs ground benign @ 25°C, typical, configuration dependent
MTTR	<30 minutes
EMI/EMC	Standard Optional Designed for FCC Class A/B MIL-STD-461C/D/E A1,A3,A4,A5

Note: Extended Environmental Characteristics Are Available.

Trademarks: Sun; SPARC - Sun Microsystems; VGA, SVGA - IBM Corp; UNIX - AT&T Corp; The Rugged Edge; Field Rugged/Mission Ready - C-Systems Corporation. All trademarks property of their respective owners. The company policy is one of continuous product development. Product specifications subject to change without notice. Not responsible for typographical errors

* Peripheral dependent, based on MIL-STD-810E where noted; preliminary data subject to final test confirmation. Extended environmental performance optional.